

Amendment to the Claims:

In compliance with the Revised Amendment Format, a complete listing of claims is provided herein.

1. (Currently Amended) A method of managing execution of requests of a computing environment, said method comprising:

obtaining by a ~~node~~processor of the computing environment a request to be processed; ~~and~~

starting a virtual machine on the ~~node~~processor to process the request, said virtual machine being exclusive to the request; and

processing the request by the virtual machine.

2. (Currently Amended) The method of claim 1, wherein the starting is managed at least in part by another virtual machine of the ~~node~~processor.

3. (Currently Amended) The method of claim 1, wherein said obtaining comprises receiving the request by another virtual machine of the ~~node~~processor, and wherein the starting comprises starting the virtual machine by the another virtual machine.

4. (Original) The method of claim 3, wherein the receiving the request comprises receiving the request from a job management service coupled to the another virtual machine.

5. (Original) The method of claim 1, wherein the starting comprises providing one or more resources to the virtual machine to process the request.

6. (Original) The method of claim 1, further comprising shutting down the virtual machine, in response to completing the request.

7. (Original) The method of claim 6, wherein the shutting down comprises returning one or more resources provided to the virtual machine.

8. (Currently Amended) The method of claim 6, wherein said shutting down is managed at least in part by another virtual machine of the ~~node~~ processor.

9. (Original) The method of claim 8, wherein said shutting down comprises using by the another virtual machine a communications service to shut down the virtual machine.

10. (Currently Amended) The method of claim 1, wherein said obtaining comprises obtaining by another virtual machine of the ~~node-processor~~ the request to be processed, and wherein the starting comprises:

providing by the another virtual machine to a communications service coupled to said another virtual machine and said virtual machine a start indication indicating that the virtual machine is to be started; and

using the communications service to start the virtual machine.

11. (Currently Amended) The method of claim 1, further comprising:

determining which ~~node-processor~~ of a plurality of ~~nodes-processors~~ is available to process the request; and

sending the request to the ~~node-processor~~ determined to be available.

12. (Currently Amended) The method of claim 11, wherein said determining comprises obtaining from one or more other virtual machines of one or more ~~nodes-processors~~ of the plurality of ~~nodes-processors~~ information to be used in the determining.

13. (Currently Amended) The method of claim 11, wherein said plurality of ~~nodes-processors~~ include at least one ~~node-processor~~ that is heterogeneous to another ~~node-processor~~.

14. (Currently Amended) The method of claim 13, wherein the one ~~node~~ processor is of at least one of a different family and different generation than the another ~~node~~ processor.

15. (Canceled)

16. (Original) The method of claim 15, further comprising providing from said virtual machine to a job management service information regarding the request being processed.

17. (Original) The method of claim 1, wherein said virtual machine is a sanitized virtual machine.

18. (Currently Amended) A method of managing initiation of virtual machines of a computing environment, said method comprising:

determining by one virtual machine on a processor of a computing environment that another virtual machine is to be initiated, wherein the determining is in response to receiving by the one virtual machine a request to be processed; ~~and~~

initiating, by the one virtual machine, the another virtual machine; and
processing the request by the another virtual machine.

19. (Canceled)

20. (Original) The method of claim 19, wherein the request is for utilization of machine resources.

21. (Original) The method of claim 18, wherein said initiating comprises using by the one virtual machine a communications service in initiating the another virtual machine.

22. (Currently Amended) A method of providing an on-demand infrastructure, said method comprising:

deploying logic on at least one ~~node-processor~~ of a computing environment to automatically provide a virtual machine on-demand in response to a request, and to process the request by the virtual machine.

23. (Currently Amended) A system of managing execution of requests of a computing environment, said system comprising:

~~means a processor for obtaining by a node~~ of the computing environment for obtaining a request to be processed; ~~and means processed and~~ for starting a virtual machine on the ~~node-processor~~ to process the request, said virtual machine being exclusive to the request.

24. (Currently Amended) The system of claim 23, wherein said ~~means for obtaining~~ comprises ~~means for receiving~~ processor receives the request by another virtual machine of the ~~node processor~~, and ~~wherein the means for starting~~ comprises ~~means for starting~~ starts the virtual machine by the another virtual machine.

25. (Currently Amended) The system of claim 23, wherein the ~~means for starting~~ comprises ~~means for providing~~ processor provides one or more resources to the virtual machine to process the request.

26. (Currently Amended) The system of claim 23, ~~further comprising means for shutting~~ wherein the processor is able to shut down the virtual machine, in response to completing the request.

27. (Currently Amended) The system of claim 26, wherein the ~~shutting~~ shut down is managed at least in part by another virtual machine of the ~~node processor~~.

28. (Currently Amended) The system of claim 23, wherein said ~~means for obtaining comprises means for obtaining~~ processor obtains by another virtual machine of the ~~node-processor~~ the request to be processed, and wherein the ~~means for starting comprises:~~ ~~means for providing said processor provides~~ by the another virtual machine to a communications service coupled to said another virtual machine and said virtual machine a start indication indicating that the virtual machine is to be ~~started;~~ and ~~means for using~~ started, and said processor uses the communications service to start the virtual machine.

29. (Currently Amended) The system of claim 23, ~~further comprising: means for determining wherein said processor determines which node-processor~~ of a plurality of ~~nodes processors~~ is available to process the request; and ~~means for sending request, and sends the request to the node-processor determined to be available.~~

30. (Currently Amended) The system of claim 29, wherein said ~~means for determining comprises means for obtaining~~ processor obtains from one or more other virtual machines of one or more ~~nodes-processors~~ of the plurality of ~~nodes-processors~~ information to be used in the determining.

31. (Currently Amended) The system of claim 23, ~~further comprising: means for processing wherein the processor processes the request by the virtual machine; and means for providing machine, and provides~~ from said virtual machine to a job management service information regarding the request being processed.

32. (Currently Amended) A system of managing initiation of virtual machines of a computing environment, said system comprising:

~~means a processor for determining by one virtual machine~~ of a computing environment for determining by one virtual machine of the computing environment that another virtual machine is to be ~~initiated;~~ and ~~means initiated, and~~ for initiating, by the one virtual machine, the another virtual machine.

33. (Original) The system of claim 32, wherein the determining is in response to receiving by the one virtual machine a request to be processed.

34. (Original) The system of claim 33, wherein the request is for utilization of machine resources.

35. (Currently Amended) The system of claim 32, wherein said ~~means for initiating comprises means for using~~ processor uses by the one virtual machine a communications service in initiating the another virtual machine.

36. (Currently Amended) A system of managing execution of requests of a computing environment, said system comprising:

a ~~node-processor~~ of the computing environment to obtain a request to be processed; and

a virtual machine on the ~~node-processor~~ to process the request, said virtual machine being exclusive to the request.

37. (Currently Amended) A system of managing initiation of virtual machines of a computing environment, said system comprising:

one virtual machine on a processor of a computing environment to determine that another virtual machine is to be initiated; and

the another virtual machine initiated by the one virtual machine.

38. (Currently Amended) An article of manufacture comprising:

at least one computer usable medium having computer readable program code logic to manage execution of requests of a computing environment, the computer readable program code logic comprising:

obtain logic to obtain by a ~~node~~processor of the computing environment a request to be processed; ~~and~~

start logic to start a virtual machine on the ~~node~~processor to process the request, said virtual machine being exclusive to the request; and

process logic to process the request by the virtual machine.

39. (Currently Amended) The article of manufacture of claim 38, wherein said obtain logic comprises receive logic to receive the request by another virtual machine of the ~~node~~processor, and wherein the start logic comprises logic to start the virtual machine by the another virtual machine.

40. (Original) The article of manufacture of claim 38, wherein the start logic comprises provide logic to provide one or more resources to the virtual machine to process the request.

41. (Original) The article of manufacture of claim 38, further comprising shut down logic to shut down the virtual machine, in response to completing the request.

42. (Currently Amended) The article of manufacture of claim 41, wherein the shut down is managed at least in part by another virtual machine of the ~~node~~processor.

43. (Currently Amended) The article of manufacture of claim 38, wherein said obtain logic comprises logic to obtain by another virtual machine of the ~~node-processor~~ the request to be processed, and wherein the start logic comprises:

provide logic to provide by the another virtual machine to a communications service coupled to said another virtual machine and said virtual machine a start indication indicating that the virtual machine is to be started; and

use logic to use the communications service to start the virtual machine.

44. (Currently Amended) The article of manufacture of claim 38, further comprising:

determine logic to determine which ~~node-processor~~ of a plurality of ~~nodes processors~~ is available to process the request; and

send logic to send the request to the ~~node-processor~~ determined to be available.

45. (Currently Amended) The article of manufacture of claim 44, wherein said determine logic comprises obtain logic to obtain from one or more other virtual machines of one or more ~~nodes-processors~~ of the plurality of ~~nodes-processors~~ information to be used in the determining.

46. (Currently Amended) The article of manufacture of claim 38, further comprising ÷

~~process logic to process the request by the virtual machine; and~~

provide logic to provide from said virtual machine to a job management service information regarding the request being processed.

47. (Currently Amended) An article of manufacture comprising:

at least one computer usable medium having computer readable program code logic to manage initiation of virtual machines of a computing environment, the computer readable program code logic comprising:

determine logic to determine by one virtual machine on a processor of
a computing environment that another virtual machine is to be initiated,
wherein the determining is in response to receiving by the one virtual machine
a request to be processed;-and

initiate logic to initiate, by the one virtual machine, the another virtual
machine; and

processing logic to process the request by the another virtual machine.

48. (Canceled)

49. (Original) The article of manufacture of claim 48, wherein the request is for utilization of machine resources.

50. (Original) The article of manufacture of claim 47, wherein said initiate logic comprises use logic to use by the one virtual machine a communications service in initiating the another virtual machine.